

Application No. 09/594,374
Amdt. dated October 30, 2003
Reply to Office Action of July 31, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A communication system for use with geosynchronous satellite systems broadcasting a first beam at a first frequency comprising:
a first stratospheric platform generating a second beam having the first frequency;
a second stratospheric platform generating a third beam having the first frequency; and
user terminals configured to receive the first beam, [[and]] the second beam and
the third beam.

2. (Original) A system as recited in claim 1 wherein user terminals comprise directional antennas.

3. (Cancelled)

4. (Cancelled)

5. (Original) A system as recited in claim 1 wherein the second beam is generated from a secondary payload.

6. (Original) A communication system for use with geosynchronous satellite systems broadcasting a first beam at a first frequency comprising:
a first stratospheric platform having a primary payload and a secondary payload, said secondary payload generating communication signals having the first frequency.

7. (Original) A system as recited in claim 6 further comprising a second stratospheric platform generating a third beam having the first frequency.

8. (Currently Amended) A system as recited in claim 6 wherein the ~~second beam is~~ communication signals are generated from a secondary payload.

9. (Currently Amended) A method for operating a communications system comprising the steps of:

generating a first beam using a first frequency directed at a service area with a satellite; [[and]]

generating a second beam using the first frequency directed at the service area from a first stratospheric platform; and

generating a third beam using the first frequency directed at the service area from a second stratospheric platform .

10. (Original) A method as recited in claim 10 wherein said' step of generating a second beam comprises the step of generating a second beam from a secondary payload.

11. (Original) A method as recited in claim 10 wherein said satellite comprises a geostationary satellite.

12. (Currently Amended) A method as recited in claim 10 further comprising the step of generating a feeder link with the first frequency.

13. (New) A system as recited in claim 1 further comprising a gateway station generating a feeder link using the first frequency.

14. (New) A communication system for use with geosynchronous satellite systems broadcasting a first beam at a first frequency range comprising:

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a first stratospheric platform generating a second beam, a plurality of third beams and a plurality of fourth beams each within the first frequency range within a service area, said plurality of third beams and said plurality of fourth beams alternately arranged around the second beam in a center position to provide a three color reuse scheme;

user terminals configured to receive beams in the first frequency range.

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15. (New) A system as recited in claim 14 wherein user terminals comprise directional antennas.

16. (New) A system as recited in claim 14 wherein the second beam is generated from a secondary payload.

17. (New) A communication system for use with geosynchronous satellite systems broadcasting a first beam at a first frequency range comprising:

a first stratospheric platform generating a plurality of second beams and a plurality of third beams each within the first frequency range and a service area, said plurality of second beams and said plurality of third beams alternately arranged around a central hole;

a gateway station positioned within the hole in the service area;

user terminals configured to receive beams in the first frequency range.

18. (New) A system as recited in claim 17 wherein user terminals comprise directional antennas.

19. (New) A system as recited in claim 17 wherein the plurality of second beams are generated from a secondary payload.